

22 April 2005

Bill Haldeman
PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005
RE: Shell Harbor Island

Enclosed are the results of analyses for samples received by the laboratory on 04/08/05 13:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Sandra Yakamavich". The signature is written in dark ink and is positioned above the printed name and title.

Sandra Yakamavich
Project Manager



11720 North Creek Pkwy N Suite 400, Bothell, WA 98011-8244 425-420-9200 FAX 420-9210
11922 E 1st Ave, Spokane, WA 99206-5302 509-924-9200 FAX 924-9290
9405 SW Nimbus Ave, Beaverton, OR 97008-7145 503-906-9200 FAX 906-9210
20332 Empire Ave, Ste F1, Bend, OR 97701-5712 541-383-9310 FAX 382-7588
2000 W International Airport Rd Ste A10, Anchorage, AK 99502-1119 907-563-9200 FAX 563-9210

CHAIN OF CUSTODY REPORT

Work Order #:

B5D0285

NCA CLIENT: PES Environmental		INVOICE TO: Frank Rinehart 2555 13th Ave SW Seattle, WA 98134		TURNAROUND REQUEST In Business Days * Organic & Inorganic Analyses <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <1 Petrochemical Hydrocarbon Analyses <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <1 OTHER Specify: Gx/BTEX *Turnaround Request less than standard may incur Rush Charge.													
REPORT TO: Bill Haldeman (PES)		P.O. NUMBER:															
ADDRESS: 9 Lake Bellevue Drive, 108 Bellevue, WA 98005																	
PHONE: 425.637.1905 FAX: 425.637.1907																	
PROJECT NAME: Shell Harbor Island, WA		PRESERVATIVE															
PROJECT NUMBER: 828.001.01.001		REQUESTED ANALYSES															
SAMPLED BY: Erin McQuillan																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	TSS 160.2	AMPH-BOX 160.2	BTEX 160.2	VOC 160.2	SVOC 160.2	PCB 160.2	Metals * 200.7	Cyanide 335.2	06 160.2		MATRIX (W, S, O)	# OF CONT.	LOCATION / COMMENTS	NCA WO ID		
1 OUTFALL-1-040705	4-7-05 1315	X										W	1		-01		
2 OUTFALL-1-040705	1430		X	X	X	X	X	X	X	X		W	14		-02		
3 OUTFALL-2-040705	1400									X		W	1		-03		
4 Trip Blank	4/7/05 1200												4		-04		
5																	
6																	
7																	
8																	
9																	
10																	
RELEASED BY: Erin McQuillan		DATE: 4-8-05		RECEIVED BY: Tom Blankinship		DATE: 4/8/05											
PRINT NAME: Erin McQuillan		FIRM: PES		TIME: 1350		PRINT NAME: Blankinship		FIRM: NCA		TIME: 1350							
RELEASED BY:		DATE:		RECEIVED BY:		DATE:											
PRINT NAME:		FIRM:		TIME:		PRINT NAME:		FIRM:		TIME:							
ADDITIONAL REMARKS:														TEMP: 5.42 °C		PAGE 1 OF 1	
COC REV 09/04 Priority Pollutant Metals 200.7 (As, Cd, Cu, Pb, Hg, Ni, Ag, Zn)																	

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Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OUTFALL-1-040705	B5D0285-01	Water	04/07/05 13:45	04/08/05 13:50
OUTFALL-1-040705	B5D0285-02	Water	04/07/05 14:30	04/08/05 13:50
OUTFALL-2-040705	B5D0285-03	Water	04/07/05 14:00	04/08/05 13:50
TRIP BLANK	B5D0285-04	Water	04/07/05 12:00	04/08/05 13:50

North Creek Analytical - Bothell

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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B
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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
Gasoline Range Hydrocarbons	57.8	50.0	ug/l	1	5D08014	04/08/05	04/08/05	NWTPH-Gx/8021B	
Benzene	0.583	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	12.4	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	71.3 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	106 %	68-140			"	"	"	"	
TRIP BLANK (B5D0285-04) Water Sampled: 04/07/05 12:00 Received: 04/08/05 13:50									
Gasoline Range Hydrocarbons	ND	50.0	ug/l	1	5D13023	04/13/05	04/13/05	NWTPH-Gx/8021B	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	1.00	"	"	"	"	"	"	
Surrogate: 4-BFB (FID)	85.2 %	58-144			"	"	"	"	
Surrogate: 4-BFB (PID)	101 %	68-140			"	"	"	"	

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Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Total Metals by EPA 200 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
Silver	ND	0.0100	mg/l	1	5D18031	04/18/05	04/18/05	EPA 200.7	
Arsenic	ND	0.100	"	"	"	"	"	"	
Cadmium	ND	0.00500	"	"	"	"	"	"	
Copper	ND	0.0100	"	"	"	"	"	"	
Mercury	ND	0.000200	"	"	5D12043	04/12/05	04/12/05	EPA 245.1	
Nickel	ND	0.0100	"	"	5D18031	04/18/05	04/18/05	EPA 200.7	
Lead	ND	0.0500	"	"	"	"	"	"	
Zinc	0.202	0.0200	"	"	"	"	"	"	

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Reported:
04/22/05 17:27

Organochlorine Pesticides and PCBs by EPA Method 608
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
Aldrin	ND	0.100	ug/l	1	5D13006	04/13/05	04/15/05	EPA 608	
alpha-BHC	ND	0.0400	"	"	"	"	"	"	
beta-BHC	ND	0.0800	"	"	"	"	"	"	
delta-BHC	ND	0.100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.0400	"	"	"	"	"	"	
Chlordane (tech)	ND	0.500	"	"	"	"	"	"	
4,4'-DDD	ND	0.0800	"	"	"	"	"	"	
4,4'-DDE	ND	0.0800	"	"	"	"	"	"	
4,4'-DDT	ND	0.0800	"	"	"	"	"	"	
Dieldrin	ND	0.0800	"	"	"	"	"	"	
Endosulfan I	ND	0.0200	"	"	"	"	"	"	
Endosulfan II	ND	0.0800	"	"	"	"	"	"	
Endosulfan sulfate	ND	0.100	"	"	"	"	"	"	
Endrin	ND	0.0800	"	"	"	"	"	"	
Endrin aldehyde	ND	0.200	"	"	"	"	"	"	
Heptachlor	ND	0.0800	"	"	"	"	"	"	
Heptachlor epoxide	ND	0.0400	"	"	"	"	"	"	
Toxaphene	ND	2.00	"	"	"	"	"	"	
Aroclor 1016	ND	0.500	"	"	"	"	"	"	
Aroclor 1221	ND	0.500	"	"	"	"	"	"	
Aroclor 1232	ND	0.500	"	"	"	"	"	"	
Aroclor 1242	ND	0.500	"	"	"	"	"	"	
Aroclor 1248	ND	0.500	"	"	"	"	"	"	
Aroclor 1254	ND	0.500	"	"	"	"	"	"	
Aroclor 1260	ND	0.500	"	"	"	"	"	"	
Surrogate: TCX	46.8 %	25-129			"	"	"	"	
Surrogate: Decachlorobiphenyl	17.0 %	22-125			"	"	"	"	S-03

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Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Purgeables by EPA Method 624
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
Acrolein	ND	5.00	ug/l	1	5D12060	04/12/05	04/12/05	EPA 624	
Acrylonitrile	ND	5.00	"	"	"	"	"	"	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	2.00	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
2-Chloroethylvinyl ether	ND	5.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
Surrogate: 1,2-DCA-d4	98.5 %	77-122			"	"	"	"	
Surrogate: Toluene-d8	100 %	75-124			"	"	"	"	

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Reported:
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Purgeables by EPA Method 624
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							

OUTFALL-1-040705 (BSD0285-02) Water **Sampled: 04/07/05 14:30** **Received: 04/08/05 13:50**

Surrogate: 4-BFB 98.5 % 77-120 5D12060 04/12/05 04/12/05 "

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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Project: Shell Harbor Island
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Reported:
04/22/05 17:27

Acid and Base/Neutral Extractables by EPA Method 625
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
Acenaphthene	ND	10.0	ug/l	1	5D11004	04/11/05	04/21/05	EPA 625	
Acenaphthylene	ND	10.0	"	"	"	"	"	"	
Aniline	ND	10.0	"	"	"	"	"	"	
Anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10.0	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10.0	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	10.0	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	10.0	"	"	"	"	"	"	
Benzoic Acid	ND	100	"	"	"	"	"	"	
Benzyl alcohol	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10.0	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	50.0	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10.0	"	"	"	"	"	"	
Carbazole	ND	10.0	"	"	"	"	"	"	
4-Chloroaniline	ND	10.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10.0	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10.0	"	"	"	"	"	"	
2-Chlorophenol	ND	10.0	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10.0	"	"	"	"	"	"	
Chrysene	ND	10.0	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10.0	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Dibenzofuran	ND	10.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10.0	"	"	"	"	"	"	
3,3'-Dichlorobenzidine	ND	20.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10.0	"	"	"	"	"	"	
Diethyl phthalate	ND	10.0	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10.0	"	"	"	"	"	"	

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Acid and Base/Neutral Extractables by EPA Method 625
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
4,6-Dinitro-2-methylphenol	ND	10.0	ug/l	1	5D11004	04/11/05	04/21/05	"	
2,4-Dinitrophenol	ND	20.0	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	10.0	"	"	"	"	"	"	
1,2-Diphenylhydrazine (as Azobenzene)	ND	20.0	"	"	"	"	"	"	
Fluoranthene	ND	10.0	"	"	"	"	"	"	
Fluorene	ND	10.0	"	"	"	"	"	"	
Hexachlorobenzene	ND	10.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10.0	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10.0	"	"	"	"	"	"	
Hexachloroethane	ND	10.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Isophorone	ND	10.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10.0	"	"	"	"	"	"	
2-Methylphenol	ND	10.0	"	"	"	"	"	"	
3 & 4-Methylphenol	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	10.0	"	"	"	"	"	"	
2-Nitroaniline	ND	20.0	"	"	"	"	"	"	
3-Nitroaniline	ND	10.0	"	"	"	"	"	"	
4-Nitroaniline	ND	10.0	"	"	"	"	"	"	
Nitrobenzene	ND	10.0	"	"	"	"	"	"	
2-Nitrophenol	ND	10.0	"	"	"	"	"	"	
4-Nitrophenol	ND	10.0	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10.0	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10.0	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10.0	"	"	"	"	"	"	
Pentachlorophenol	ND	10.0	"	"	"	"	"	"	
Phenanthrene	ND	10.0	"	"	"	"	"	"	
Phenol	ND	10.0	"	"	"	"	"	"	
Pyrene	ND	10.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10.0	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10.0	"	"	"	"	"	"	
Surrogate: 2-FBP	87.1 %	49-122			"	"	"	"	
Surrogate: 2-FP	63.0 %	20-111			"	"	"	"	

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Acid and Base/Neutral Extractables by EPA Method 625
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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OUTFALL-1-040705 (BSD0285-02) Water **Sampled: 04/07/05 14:30** **Received: 04/08/05 13:50**

Surrogate: Nitrobenzene-d5	85.8 %	50-120			5D11004	04/11/05	04/21/05	"	
Surrogate: Phenol-d6	62.6 %	12-120			"	"	"	"	
Surrogate: p-Terphenyl-d14	99.0 %	10-138			"	"	"	"	
Surrogate: 2,4,6-TBP	96.0 %	22-131			"	"	"	"	

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Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OUTFALL-1-040705 (B5D0285-01) Water Sampled: 04/07/05 13:45 Received: 04/08/05 13:50									
Total Suspended Solids	ND	4.0	mg/l	1	5D12062	04/12/05	04/12/05	EPA 160.2	
OUTFALL-1-040705 (B5D0285-02) Water Sampled: 04/07/05 14:30 Received: 04/08/05 13:50									
Cyanide (total)	ND	0.0100	mg/l	1	5D13060	04/12/05	04/13/05	EPA 335.2 Mod	
Oil & Grease (HEM)	ND	5.00	"	"	5D11029	04/11/05	04/11/05	EPA 1664	
Total Petroleum Hydrocarbons (SGT-HEM)	ND	5.00	"	"	"	"	"	"	
OUTFALL-2-040705 (B5D0285-03) Water Sampled: 04/07/05 14:00 Received: 04/08/05 13:50									
Oil & Grease (HEM)	ND	5.00	mg/l	1	5D11029	04/11/05	04/11/05	EPA 1664	
Total Petroleum Hydrocarbons (SGT-HEM)	ND	5.00	"	"	"	"	"	"	

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D08014: Prepared 04/08/05 Using EPA 5030B (P/T)

Blank (5D08014-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	43.5		"	60.0		72.5	58-144			
Surrogate: 4-BFB (PID)	63.0		"	60.0		105	68-140			

LCS (5D08014-BS1)

Gasoline Range Hydrocarbons	1080	50.0	ug/l	1000		108	80-120			
Benzene	12.4	0.500	"	13.3		93.2	80-120			
Toluene	68.3	0.500	"	72.5		94.2	80-120			
Ethylbenzene	17.4	0.500	"	17.1		102	80-120			
Xylenes (total)	84.8	1.00	"	83.0		102	80-120			
Surrogate: 4-BFB (FID)	53.9		"	60.0		89.8	58-144			
Surrogate: 4-BFB (PID)	59.7		"	60.0		99.5	68-140			

LCS Dup (5D08014-BSD1)

Gasoline Range Hydrocarbons	1010	50.0	ug/l	1000		101	80-120	6.70	25	
Benzene	12.2	0.500	"	13.3		91.7	80-120	1.63	25	
Toluene	67.5	0.500	"	72.5		93.1	80-120	1.18	25	
Ethylbenzene	17.1	0.500	"	17.1		100	80-120	1.74	25	
Xylenes (total)	83.0	1.00	"	83.0		100	80-120	2.15	25	
Surrogate: 4-BFB (FID)	52.9		"	60.0		88.2	58-144			
Surrogate: 4-BFB (PID)	59.9		"	60.0		99.8	68-140			

Matrix Spike (5D08014-MS1)

Source: B5D0057-07

Gasoline Range Hydrocarbons	958	50.0	ug/l	1000	14.4	94.4	58-129			
Benzene	12.1	0.500	"	13.3	ND	91.0	46-130			
Toluene	66.8	0.500	"	72.5	0.184	91.9	60-124			
Ethylbenzene	16.9	0.500	"	17.1	ND	98.8	56-141			
Xylenes (total)	81.7	1.00	"	83.0	ND	98.4	66-132			

North Creek Analytical - Bothell

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Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Notes
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Batch 5D08014: Prepared 04/08/05 Using EPA 5030B (P/T)

Matrix Spike (5D08014-MS1)

Source: B5D0057-07

Surrogate: 4-BFB (FID)	51.0		ug/l	60.0		85.0	58-144			
Surrogate: 4-BFB (PID)	60.0		"	60.0		100	68-140			

Matrix Spike Dup (5D08014-MSD1)

Source: B5D0057-07

Gasoline Range Hydrocarbons	997	50.0	ug/l	1000	14.4	98.3	58-129	3.99	25	
Benzene	12.4	0.500	"	13.3	ND	93.2	46-130	2.45	40	
Toluene	68.4	0.500	"	72.5	0.184	94.1	60-124	2.37	40	
Ethylbenzene	17.3	0.500	"	17.1	ND	101	56-141	2.34	40	
Xylenes (total)	84.1	1.00	"	83.0	ND	101	66-132	2.90	40	
Surrogate: 4-BFB (FID)	51.0		"	60.0		85.0	58-144			
Surrogate: 4-BFB (PID)	59.8		"	60.0		99.7	68-140			

Batch 5D13023: Prepared 04/13/05 Using EPA 5030B (P/T)

Blank (5D13023-BLK1)

Gasoline Range Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	1.00	"							
Surrogate: 4-BFB (FID)	50.3		"	60.0		83.8	58-144			
Surrogate: 4-BFB (PID)	61.7		"	60.0		103	68-140			

LCS (5D13023-BS1)

Gasoline Range Hydrocarbons	991	50.0	ug/l	1000		99.1	80-120			
Surrogate: 4-BFB (FID)	58.0		"	60.0		96.7	58-144			

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Project Manager: Bill Haldeman

Reported:
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control

North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D13023: Prepared 04/13/05 Using EPA 5030B (P/T)

LCS (5D13023-BS2)

Benzene	30.0	0.500	ug/l	30.0		100	80-120			
Toluene	32.3	0.500	"	30.0		108	80-120			
Ethylbenzene	32.7	0.500	"	30.0		109	80-120			
Xylenes (total)	101	1.00	"	89.5		113	80-120			
Surrogate: 4-BFB (PID)	60.7		"	60.0		101	68-140			

LCS Dup (5D13023-BSD1)

Gasoline Range Hydrocarbons	942	50.0	ug/l	1000		94.2	80-120	5.07	25	
Surrogate: 4-BFB (FID)	58.9		"	60.0		98.2	58-144			

LCS Dup (5D13023-BSD2)

Benzene	29.5	0.500	ug/l	30.0		98.3	80-120	1.68	25	
Toluene	31.7	0.500	"	30.0		106	80-120	1.87	25	
Ethylbenzene	32.2	0.500	"	30.0		107	80-120	1.54	25	
Xylenes (total)	100	1.00	"	89.5		112	80-120	0.995	25	
Surrogate: 4-BFB (PID)	60.8		"	60.0		101	68-140			

Matrix Spike (5D13023-MS1)

Source: B5D0297-03

Gasoline Range Hydrocarbons	1300	50.0	ug/l	1000	ND	130	58-129			Q-01
Surrogate: 4-BFB (FID)	60.4		"	60.0		101	58-144			

Matrix Spike (5D13023-MS2)

Source: B5D0297-04

Benzene	29.3	0.500	ug/l	30.0	ND	97.7	46-130			
Toluene	31.4	0.500	"	30.0	ND	105	60-124			
Ethylbenzene	32.3	0.500	"	30.0	ND	108	56-141			
Xylenes (total)	100	1.00	"	89.5	ND	112	66-132			
Surrogate: 4-BFB (PID)	61.5		"	60.0		102	68-140			

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Project: Shell Harbor Island
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Project Manager: Bill Haldeman

Reported:
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Gasoline Hydrocarbons (Benzene to Naphthalene) and BTEX by NWTPH-G and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D13023: Prepared 04/13/05 Using EPA 5030B (P/T)

Matrix Spike Dup (5D13023-MSD1)

Source: B5D0297-03

Gasoline Range Hydrocarbons	1250	50.0	ug/l	1000	ND	125	58-129	3.92	25	
Surrogate: 4-BFB (FID)	61.5		"	60.0		102	58-144			

Matrix Spike Dup (5D13023-MSD2)

Source: B5D0297-04

Benzene	28.8	0.500	ug/l	30.0	ND	96.0	46-130	1.72	40	
Toluene	30.8	0.500	"	30.0	ND	103	60-124	1.93	40	
Ethylbenzene	31.7	0.500	"	30.0	ND	106	56-141	1.87	40	
Xylenes (total)	98.2	1.00	"	89.5	ND	110	66-132	1.82	40	
Surrogate: 4-BFB (PID)	61.8		"	60.0		103	68-140			

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Project: Shell Harbor Island
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Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Total Metals by EPA 200 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D12043: Prepared 04/12/05 Using EPA 7470A

Blank (5D12043-BLK1)

Mercury	ND	0.000200	mg/l						
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LCS (5D12043-BS1)

Mercury	0.00525	0.000200	mg/l	0.00500		105	85-115		
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LCS Dup (5D12043-BSD1)

Mercury	0.00523	0.000200	mg/l	0.00500		105	85-115	0.382	20
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Duplicate (5D12043-DUP1)

Source: B5D0300-02

Mercury	ND	0.000200	mg/l		ND			NA	20
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Matrix Spike (5D12043-MS1)

Source: B5D0300-02

Mercury	0.00533	0.000200	mg/l	0.00500	ND	107	70-130		
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Batch 5D18031: Prepared 04/18/05 Using EPA 200 Series

Blank (5D18031-BLK1)

Silver	ND	0.0100	mg/l						
Arsenic	ND	0.100	"						
Cadmium	ND	0.00500	"						
Copper	ND	0.0100	"						
Nickel	ND	0.0100	"						
Lead	ND	0.0500	"						
Zinc	ND	0.0200	"						

LCS (5D18031-BS1)

Silver	0.998	0.0100	mg/l	1.00		99.8	85-115		
Arsenic	4.95	0.100	"	5.00		99.0	85-115		
Cadmium	4.90	0.00500	"	5.00		98.0	85-115		
Copper	5.19	0.0100	"	5.00		104	85-115		
Nickel	4.97	0.0100	"	5.00		99.4	85-115		
Lead	4.92	0.0500	"	5.00		98.4	85-115		
Zinc	4.87	0.0200	"	5.00		97.4	85-115		

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Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Total Metals by EPA 200 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D18031: Prepared 04/18/05 Using EPA 200 Series

LCS Dup (5D18031-BSD1)

Silver	0.975	0.0100	mg/l	1.00		97.5	85-115	2.33	50	
Arsenic	4.89	0.100	"	5.00		97.8	85-115	1.22	20	
Cadmium	4.82	0.00500	"	5.00		96.4	85-115	1.65	20	
Copper	5.12	0.0100	"	5.00		102	85-115	1.36	20	
Nickel	4.90	0.0100	"	5.00		98.0	85-115	1.42	20	
Lead	4.79	0.0500	"	5.00		95.8	85-115	2.68	20	
Zinc	4.79	0.0200	"	5.00		95.8	85-115	1.66	20	

Duplicate (5D18031-DUP1)

Source: B5D0161-07

Silver	ND	0.0100	mg/l		ND			NA	50	
Arsenic	0.0366	0.100	"		0.0265			32.0	20	Q-07
Cadmium	ND	0.00500	"		ND			NA	20	
Copper	0.0758	0.0100	"		0.0600			23.3	20	Q-07
Nickel	0.00640	0.0100	"		0.00690			7.52	20	
Lead	ND	0.0500	"		ND			NA	20	
Zinc	0.0891	0.0200	"		0.0801			10.6	20	

Matrix Spike (5D18031-MS1)

Source: B5D0161-07

Silver	0.976	0.0100	mg/l	1.00	ND	97.6	40-140			
Arsenic	4.99	0.100	"	5.00	0.0265	99.3	80-120			
Cadmium	4.88	0.00500	"	5.00	ND	97.6	80-120			
Copper	5.20	0.0100	"	5.00	0.0600	103	80-120			
Nickel	4.88	0.0100	"	5.00	0.00690	97.5	80-120			
Lead	4.79	0.0500	"	5.00	ND	95.8	80-120			
Zinc	4.91	0.0200	"	5.00	0.0801	96.6	80-120			

Matrix Spike (5D18031-MS2)

Source: B5D0285-02

Silver	0.981	0.0100	mg/l	1.00	ND	98.1	40-140			
Arsenic	4.97	0.100	"	5.00	ND	99.4	80-120			
Cadmium	4.96	0.00500	"	5.00	ND	99.2	80-120			
Copper	5.13	0.0100	"	5.00	0.00500	102	80-120			
Nickel	5.02	0.0100	"	5.00	ND	100	80-120			
Lead	4.87	0.0500	"	5.00	ND	97.4	80-120			
Zinc	5.21	0.0200	"	5.00	0.202	100	80-120			

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Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D13006: Prepared 04/13/05 Using EPA 3520C

Blank (5D13006-BLK1)

Aldrin	ND	0.100	ug/l							
alpha-BHC	ND	0.0400	"							
beta-BHC	ND	0.0800	"							
delta-BHC	ND	0.100	"							
gamma-BHC (Lindane)	ND	0.0400	"							
Chlordane (tech)	ND	0.500	"							
4,4'-DDD	ND	0.0800	"							
4,4'-DDE	ND	0.0800	"							
4,4'-DDT	ND	0.0800	"							
Dieldrin	ND	0.0800	"							
Endosulfan I	ND	0.0200	"							
Endosulfan II	ND	0.0800	"							
Endosulfan sulfate	ND	0.100	"							
Endrin	ND	0.0800	"							
Endrin aldehyde	ND	0.200	"							
Heptachlor	ND	0.0800	"							
Heptachlor epoxide	ND	0.0400	"							
Toxaphene	ND	2.00	"							
Aroclor 1016	ND	0.500	"							
Aroclor 1221	ND	0.500	"							
Aroclor 1232	ND	0.500	"							
Aroclor 1242	ND	0.500	"							
Aroclor 1248	ND	0.500	"							
Aroclor 1254	ND	0.500	"							
Aroclor 1260	ND	0.500	"							
Surrogate: TCX	0.190		"	0.200		95.0	25-129			
Surrogate: Decachlorobiphenyl	0.154		"	0.200		77.0	22-125			

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Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D13006: Prepared 04/13/05 Using EPA 3520C

LCS (5D13006-BS1)

Aldrin	0.243	0.100	ug/l	0.250		97.2	42-122			
alpha-BHC	0.230	0.0400	"	0.250		92.0	37-134			
beta-BHC	0.249	0.0800	"	0.250		99.6	17-147			
delta-BHC	0.221	0.100	"	0.250		88.4	19-140			
gamma-BHC (Lindane)	0.232	0.0400	"	0.250		92.8	32-127			
4,4'-DDD	0.483	0.0800	"	0.500		96.6	31-141			
4,4'-DDE	0.490	0.0800	"	0.500		98.0	30-145			
4,4'-DDT	0.492	0.0800	"	0.500		98.4	25-160			
Dieldrin	0.496	0.0800	"	0.500		99.2	36-146			
Endosulfan I	0.243	0.0200	"	0.250		97.2	45-153			
Endosulfan II	0.523	0.0800	"	0.500		105	10-202			
Endosulfan sulfate	0.499	0.100	"	0.500		99.8	26-144			
Endrin	0.481	0.0800	"	0.500		96.2	30-147			
Endrin aldehyde	0.502	0.200	"	0.500		100	30-147			
Heptachlor	0.224	0.0800	"	0.250		89.6	34-111			
Heptachlor epoxide	0.242	0.0400	"	0.250		96.8	37-142			
Surrogate: TCX	0.196		"	0.200		98.0	25-129			
Surrogate: Decachlorobiphenyl	0.173		"	0.200		86.5	22-125			

LCS Dup (5D13006-BSD1)

Aldrin	0.229	0.100	ug/l	0.250		91.6	42-122	5.93	35	
alpha-BHC	0.212	0.0400	"	0.250		84.8	37-134	8.14	35	
beta-BHC	0.233	0.0800	"	0.250		93.2	17-147	6.64	35	
delta-BHC	0.205	0.100	"	0.250		82.0	19-140	7.51	35	
gamma-BHC (Lindane)	0.215	0.0400	"	0.250		86.0	32-127	7.61	35	
4,4'-DDD	0.421	0.0800	"	0.500		84.2	31-141	13.7	35	
4,4'-DDE	0.426	0.0800	"	0.500		85.2	30-145	14.0	35	
4,4'-DDT	0.419	0.0800	"	0.500		83.8	25-160	16.0	35	
Dieldrin	0.464	0.0800	"	0.500		92.8	36-146	6.67	35	
Endosulfan I	0.225	0.0200	"	0.250		90.0	45-153	7.69	35	
Endosulfan II	0.479	0.0800	"	0.500		95.8	10-202	8.78	35	
Endosulfan sulfate	0.447	0.100	"	0.500		89.4	26-144	11.0	35	
Endrin	0.409	0.0800	"	0.500		81.8	30-147	16.2	35	
Endrin aldehyde	0.471	0.200	"	0.500		94.2	30-147	6.37	35	

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Project: Shell Harbor Island
Project Number: 828.001.01.001
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04/22/05 17:27

Organochlorine Pesticides and PCBs by EPA Method 608 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D13006: Prepared 04/13/05 Using EPA 3520C

LCS Dup (5D13006-BSD1)

Heptachlor	0.212	0.0800	ug/l	0.250		84.8	34-111	5.50	35	
Heptachlor epoxide	0.227	0.0400	"	0.250		90.8	37-142	6.40	35	
Surrogate: TCX	0.180		"	0.200		90.0	25-129			
Surrogate: Decachlorobiphenyl	0.161		"	0.200		80.5	22-125			

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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Purgeables by EPA Method 624 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D12060: Prepared 04/12/05 Using EPA 5030B

Blank (5D12060-BLK1)

Acrolein	ND	5.00	ug/l
Acrylonitrile	ND	5.00	"
Benzene	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	2.00	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
2-Chloroethylvinyl ether	ND	5.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
cis-1,3-Dichloropropene	ND	1.00	"
trans-1,3-Dichloropropene	ND	1.00	"
Ethylbenzene	ND	1.00	"
Methylene chloride	ND	5.00	"
1,1,2,2-Tetrachloroethane	ND	1.00	"
Tetrachloroethene	ND	1.00	"
Toluene	ND	1.00	"
1,1,1-Trichloroethane	ND	1.00	"
1,1,2-Trichloroethane	ND	1.00	"
Trichloroethene	ND	1.00	"
Trichlorofluoromethane	ND	1.00	"
Vinyl chloride	ND	1.00	"

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Batch 5D12060: Prepared 04/12/05 Using EPA 5030B

Blank (5D12060-BLK1)

Surrogate: 1,2-DCA-d4	20.7		ug/l	20.0		104	77-122			
Surrogate: Toluene-d8	20.1		"	20.0		100	75-124			
Surrogate: 4-BFB	19.5		"	20.0		97.5	77-120			

LCS (5D12060-BS1)

Benzene	19.7	1.00	ug/l	20.0		98.5	75-125			
Bromodichloromethane	21.0	1.00	"	20.0		105	75-125			
Bromoform	21.8	1.00	"	20.0		109	75-125			
Bromomethane	19.1	2.00	"	20.0		95.5	75-125			
Carbon tetrachloride	19.8	1.00	"	20.0		99.0	75-125			
Chlorobenzene	19.9	1.00	"	20.0		99.5	75-125			
Chloroethane	19.0	1.00	"	20.0		95.0	75-125			
Chloroform	21.0	1.00	"	20.0		105	75-125			
Chloromethane	18.3	5.00	"	20.0		91.5	75-125			
Dibromochloromethane	21.0	1.00	"	20.0		105	75-125			
1,2-Dichlorobenzene	20.0	1.00	"	20.0		100	75-125			
1,3-Dichlorobenzene	19.8	1.00	"	20.0		99.0	75-125			
1,4-Dichlorobenzene	20.0	1.00	"	20.0		100	75-125			
1,1-Dichloroethane	21.2	1.00	"	20.0		106	75-125			
1,2-Dichloroethane	20.5	1.00	"	20.0		102	75-125			
1,1-Dichloroethene	20.7	1.00	"	20.0		104	75-125			
trans-1,2-Dichloroethene	20.8	1.00	"	20.0		104	75-125			
1,2-Dichloropropane	20.7	1.00	"	20.0		104	75-125			
cis-1,3-Dichloropropene	22.1	1.00	"	20.0		110	75-125			
trans-1,3-Dichloropropene	21.6	1.00	"	20.0		108	75-125			
Ethylbenzene	20.2	1.00	"	20.0		101	75-125			
Methylene chloride	20.8	5.00	"	20.0		104	75-125			
1,1,2,2-Tetrachloroethane	21.2	1.00	"	20.0		106	75-125			
Tetrachloroethene	19.9	1.00	"	20.0		99.5	75-130			
Toluene	20.4	1.00	"	20.0		102	75-120			
1,1,1-Trichloroethane	20.9	1.00	"	20.0		104	75-130			
1,1,2-Trichloroethane	21.4	1.00	"	20.0		107	75-130			
Trichloroethene	20.2	1.00	"	20.0		101	75-120			
Trichlorofluoromethane	20.8	1.00	"	20.0		104	75-130			

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Batch 5D12060: Prepared 04/12/05 Using EPA 5030B

LCS (5D12060-BS1)

Vinyl chloride	18.0	1.00	ug/l	20.0		90.0	75-125		
Surrogate: 1,2-DCA-d4	19.6		"	20.0		98.0	77-122		
Surrogate: Toluene-d8	19.9		"	20.0		99.5	75-124		
Surrogate: 4-BFB	19.8		"	20.0		99.0	77-120		

LCS Dup (5D12060-BSD1)

Benzene	20.9	1.00	ug/l	20.0		104	75-125	5.91	20
Bromodichloromethane	21.2	1.00	"	20.0		106	75-125	0.948	20
Bromoform	21.2	1.00	"	20.0		106	75-125	2.79	20
Bromomethane	21.5	2.00	"	20.0		108	75-125	11.8	20
Carbon tetrachloride	21.3	1.00	"	20.0		106	75-125	7.30	20
Chlorobenzene	21.0	1.00	"	20.0		105	75-125	5.38	20
Chloroethane	20.5	1.00	"	20.0		102	75-125	7.59	20
Chloroform	22.2	1.00	"	20.0		111	75-125	5.56	20
Chloromethane	19.8	5.00	"	20.0		99.0	75-125	7.87	20
Dibromochloromethane	21.4	1.00	"	20.0		107	75-125	1.89	20
1,2-Dichlorobenzene	20.2	1.00	"	20.0		101	75-125	0.995	20
1,3-Dichlorobenzene	20.3	1.00	"	20.0		102	75-125	2.49	20
1,4-Dichlorobenzene	20.5	1.00	"	20.0		102	75-125	2.47	20
1,1-Dichloroethane	22.5	1.00	"	20.0		112	75-125	5.95	20
1,2-Dichloroethane	20.3	1.00	"	20.0		102	75-125	0.980	20
1,1-Dichloroethene	22.7	1.00	"	20.0		114	75-125	9.22	20
trans-1,2-Dichloroethene	23.0	1.00	"	20.0		115	75-125	10.0	20
1,2-Dichloropropane	21.6	1.00	"	20.0		108	75-125	4.26	20
cis-1,3-Dichloropropene	22.4	1.00	"	20.0		112	75-125	1.35	20
trans-1,3-Dichloropropene	21.9	1.00	"	20.0		110	75-125	1.38	20
Ethylbenzene	20.8	1.00	"	20.0		104	75-125	2.93	20
Methylene chloride	22.6	5.00	"	20.0		113	75-125	8.29	20
1,1,2,2-Tetrachloroethane	20.3	1.00	"	20.0		102	75-125	4.34	20
Tetrachloroethene	21.5	1.00	"	20.0		108	75-130	7.73	20
Toluene	21.8	1.00	"	20.0		109	75-120	6.64	20
1,1,1-Trichloroethane	22.5	1.00	"	20.0		112	75-130	7.37	20
1,1,2-Trichloroethane	21.2	1.00	"	20.0		106	75-130	0.939	20
Trichloroethene	21.5	1.00	"	20.0		108	75-120	6.24	20

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Batch 5D12060: Prepared 04/12/05 Using EPA 5030B

LCS Dup (5D12060-BSD1)

Trichlorofluoromethane	21.9	1.00	ug/l	20.0		110	75-130	5.15	20	
Vinyl chloride	21.1	1.00	"	20.0		106	75-125	15.9	20	
Surrogate: 1,2-DCA-d4	19.0		"	20.0		95.0	77-122			
Surrogate: Toluene-d8	20.0		"	20.0		100	75-124			
Surrogate: 4-BFB	19.8		"	20.0		99.0	77-120			

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Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D11004: Prepared 04/11/05 Using EPA 3520C

Blank (5D11004-BLK1)

Acenaphthene	ND	10.0	ug/l
Acenaphthylene	ND	10.0	"
Aniline	ND	10.0	"
Anthracene	ND	10.0	"
Benzo (a) anthracene	ND	10.0	"
Benzo (a) pyrene	ND	10.0	"
Benzo (b) fluoranthene	ND	10.0	"
Benzo (k) fluoranthene	ND	10.0	"
Benzo (ghi) perylene	ND	10.0	"
Benzoic Acid	ND	100	"
Benzyl alcohol	ND	10.0	"
Bis(2-chloroethoxy)methane	ND	10.0	"
Bis(2-chloroethyl)ether	ND	10.0	"
Bis(2-chloroisopropyl)ether	ND	10.0	"
Bis(2-ethylhexyl)phthalate	ND	50.0	"
4-Bromophenyl phenyl ether	ND	10.0	"
Butyl benzyl phthalate	ND	10.0	"
Carbazole	ND	10.0	"
4-Chloroaniline	ND	10.0	"
4-Chloro-3-methylphenol	ND	10.0	"
2-Chloronaphthalene	ND	10.0	"
2-Chlorophenol	ND	10.0	"
4-Chlorophenyl phenyl ether	ND	10.0	"
Chrysene	ND	10.0	"
Di-n-butyl phthalate	ND	10.0	"
Dibenz (a,h) anthracene	ND	10.0	"
Dibenzofuran	ND	10.0	"
1,2-Dichlorobenzene	ND	10.0	"
1,3-Dichlorobenzene	ND	10.0	"
1,4-Dichlorobenzene	ND	10.0	"
3,3'-Dichlorobenzidine	ND	20.0	"
2,4-Dichlorophenol	ND	10.0	"
Diethyl phthalate	ND	10.0	"
2,4-Dimethylphenol	ND	10.0	"

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Batch 5D11004: Prepared 04/11/05 Using EPA 3520C

Blank (5D11004-BLK1)

Dimethyl phthalate	ND	10.0	ug/l
4,6-Dinitro-2-methylphenol	ND	10.0	"
2,4-Dinitrophenol	ND	20.0	"
2,4-Dinitrotoluene	ND	10.0	"
2,6-Dinitrotoluene	ND	10.0	"
1,2-Diphenylhydrazine (as Azobenzene)	ND	20.0	"
Fluoranthene	ND	10.0	"
Fluorene	ND	10.0	"
Hexachlorobenzene	ND	10.0	"
Hexachlorobutadiene	ND	10.0	"
Hexachlorocyclopentadiene	ND	10.0	"
Hexachloroethane	ND	10.0	"
Indeno (1,2,3-cd) pyrene	ND	10.0	"
Isophorone	ND	10.0	"
2-Methylnaphthalene	ND	10.0	"
2-Methylphenol	ND	10.0	"
3 & 4-Methylphenol	ND	10.0	"
Naphthalene	ND	10.0	"
2-Nitroaniline	ND	20.0	"
3-Nitroaniline	ND	10.0	"
4-Nitroaniline	ND	10.0	"
Nitrobenzene	ND	10.0	"
2-Nitrophenol	ND	10.0	"
4-Nitrophenol	ND	10.0	"
N-Nitrosodi-n-propylamine	ND	10.0	"
N-Nitrosodiphenylamine	ND	10.0	"
Di-n-octyl phthalate	ND	10.0	"
Pentachlorophenol	ND	10.0	"
Phenanthrene	ND	10.0	"
Phenol	ND	10.0	"
Pyrene	ND	10.0	"
1,2,4-Trichlorobenzene	ND	10.0	"
2,4,5-Trichlorophenol	ND	10.0	"
2,4,6-Trichlorophenol	ND	10.0	"

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Batch 5D11004: Prepared 04/11/05 Using EPA 3520C

Blank (5D11004-BLK1)

Surrogate: 2-FBP	44.4		ug/l	50.0		88.8	49-122			
Surrogate: 2-FP	31.1		"	50.0		62.2	20-111			
Surrogate: Nitrobenzene-d5	38.0		"	50.0		76.0	50-120			
Surrogate: Phenol-d6	29.0		"	50.0		58.0	12-120			
Surrogate: p-Terphenyl-d14	53.3		"	50.0		107	10-138			
Surrogate: 2,4,6-TBP	33.7		"	50.0		67.4	22-131			

LCS (5D11004-BS1)

Acenaphthene	90.0	10.0	ug/l	100		90.0	47-145			
Acenaphthylene	91.1	10.0	"	100		91.1	33-145			
Anthracene	91.3	10.0	"	100		91.3	27-133			
Benzo (a) anthracene	91.9	10.0	"	100		91.9	33-143			
Benzo (a) pyrene	94.2	10.0	"	100		94.2	25-163			
Benzo (b) fluoranthene	96.0	10.0	"	100		96.0	25-159			
Benzo (k) fluoranthene	110	10.0	"	100		110	25-162			
Benzo (ghi) perylene	89.6	10.0	"	100		89.6	25-219			
Bis(2-chloroethoxy)methane	73.1	10.0	"	100		73.1	33-184			
Bis(2-chloroethyl)ether	75.6	10.0	"	100		75.6	25-158			
Bis(2-chloroisopropyl)ether	77.7	10.0	"	100		77.7	36-166			
Bis(2-ethylhexyl)phthalate	105	50.0	"	100		105	25-158			
4-Bromophenyl phenyl ether	84.2	10.0	"	100		84.2	53-127			
Butyl benzyl phthalate	85.1	10.0	"	100		85.1	25-152			
2-Chloronaphthalene	74.0	10.0	"	100		74.0	60-118			
2-Chlorophenol	73.6	10.0	"	100		73.6	25-134			
4-Chlorophenyl phenyl ether	96.1	10.0	"	100		96.1	25-158			
Chrysene	92.1	10.0	"	100		92.1	25-168			
Di-n-butyl phthalate	88.7	10.0	"	100		88.7	25-118			
Dibenz (a,h) anthracene	89.9	10.0	"	100		89.9	25-227			
1,2-Dichlorobenzene	78.3	10.0	"	100		78.3	32-129			
1,3-Dichlorobenzene	75.4	10.0	"	100		75.4	25-172			
1,4-Dichlorobenzene	73.9	10.0	"	100		73.9	20-124			
3,3'-Dichlorobenzidine	77.1	20.0	"	100		77.1	25-262			
2,4-Dichlorophenol	75.1	10.0	"	100		75.1	39-135			

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LCS (5D11004-BS1)

Diethyl phthalate	91.5	10.0	ug/l	100		91.5	25-114			
2,4-Dimethylphenol	77.5	10.0	"	100		77.5	32-119			
Dimethyl phthalate	92.2	10.0	"	100		92.2	25-112			
4,6-Dinitro-2-methylphenol	100	10.0	"	100		100	25-181			
2,4-Dinitrophenol	91.3	20.0	"	100		91.3	25-191			
2,4-Dinitrotoluene	105	10.0	"	100		105	39-139			
2,6-Dinitrotoluene	94.1	10.0	"	100		94.1	50-158			
1,2-Diphenylhydrazine (as Azobenzene)	78.9	20.0	"	100		78.9	25-150			
Fluoranthene	93.1	10.0	"	100		93.1	26-137			
Fluorene	94.5	10.0	"	100		94.5	59-121			
Hexachlorobenzene	97.0	10.0	"	100		97.0	25-152			
Hexachlorobutadiene	80.8	10.0	"	100		80.8	25-116			
Hexachloroethane	70.4	10.0	"	100		70.4	40-113			
Indeno (1,2,3-cd) pyrene	89.8	10.0	"	100		89.8	25-171			
Isophorone	71.7	10.0	"	100		71.7	25-196			
2-Methylnaphthalene	76.7	10.0	"	100		76.7	50-150			
3 & 4-Methylphenol	95.8	10.0	"	100		95.8	25-150			
Naphthalene	73.6	10.0	"	100		73.6	25-133			
Nitrobenzene	61.8	10.0	"	100		61.8	35-180			
2-Nitrophenol	71.1	10.0	"	100		71.1	29-182			
4-Nitrophenol	92.8	10.0	"	100		92.8	25-132			
N-Nitrosodi-n-propylamine	79.1	10.0	"	100		79.1	25-230			
Di-n-octyl phthalate	104	10.0	"	100		104	25-146			
Pentachlorophenol	102	10.0	"	100		102	25-176			
Phenanthrene	90.6	10.0	"	100		90.6	54-120			
Phenol	66.2	10.0	"	100		66.2	25-112			
Pyrene	97.2	10.0	"	100		97.2	52-115			
1,2,4-Trichlorobenzene	71.9	10.0	"	100		71.9	44-142			
Surrogate: 2-FBP	47.9		"	50.0		95.8	49-122			
Surrogate: 2-FP	28.7		"	50.0		57.4	20-111			
Surrogate: Nitrobenzene-d5	34.2		"	50.0		68.4	50-120			
Surrogate: Phenol-d6	27.2		"	50.0		54.4	12-120			
Surrogate: p-Terphenyl-d14	51.0		"	50.0		102	10-138			

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Batch 5D11004: Prepared 04/11/05 Using EPA 3520C

LCS (5D11004-BS1)

Surrogate: 2,4,6-TBP	49.8		ug/l	50.0		99.6	22-131			
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LCS Dup (5D11004-BSD1)

Acenaphthene	92.0	10.0	ug/l	100		92.0	47-145	2.20	30	
Acenaphthylene	94.3	10.0	"	100		94.3	33-145	3.45	30	
Anthracene	96.2	10.0	"	100		96.2	27-133	5.23	30	
Benzo (a) anthracene	94.2	10.0	"	100		94.2	33-143	2.47	30	
Benzo (a) pyrene	97.1	10.0	"	100		97.1	25-163	3.03	30	
Benzo (b) fluoranthene	102	10.0	"	100		102	25-159	6.06	30	
Benzo (k) fluoranthene	110	10.0	"	100		110	25-162	0.00	30	
Benzo (ghi) perylene	93.5	10.0	"	100		93.5	25-219	4.26	30	
Bis(2-chloroethoxy)methane	73.3	10.0	"	100		73.3	33-184	0.273	30	
Bis(2-chloroethyl)ether	72.3	10.0	"	100		72.3	25-158	4.46	30	
Bis(2-chloroisopropyl)ether	73.1	10.0	"	100		73.1	36-166	6.10	30	
Bis(2-ethylhexyl)phthalate	99.4	50.0	"	100		99.4	25-158	5.48	30	
4-Bromophenyl phenyl ether	90.8	10.0	"	100		90.8	53-127	7.54	30	
Butyl benzyl phthalate	97.1	10.0	"	100		97.1	25-152	13.2	30	
2-Chloronaphthalene	76.3	10.0	"	100		76.3	60-118	3.06	30	
2-Chlorophenol	71.9	10.0	"	100		71.9	25-134	2.34	30	
4-Chlorophenyl phenyl ether	97.2	10.0	"	100		97.2	25-158	1.14	30	
Chrysene	97.7	10.0	"	100		97.7	25-168	5.90	30	
Di-n-butyl phthalate	93.2	10.0	"	100		93.2	25-118	4.95	30	
Dibenz (a,h) anthracene	93.8	10.0	"	100		93.8	25-227	4.25	30	
1,2-Dichlorobenzene	76.0	10.0	"	100		76.0	32-129	2.98	30	
1,3-Dichlorobenzene	72.9	10.0	"	100		72.9	25-172	3.37	30	
1,4-Dichlorobenzene	71.9	10.0	"	100		71.9	20-124	2.74	30	
3,3'-Dichlorobenzidine	76.6	20.0	"	100		76.6	25-262	0.651	30	
2,4-Dichlorophenol	75.4	10.0	"	100		75.4	39-135	0.399	30	
Diethyl phthalate	93.4	10.0	"	100		93.4	25-114	2.06	30	
2,4-Dimethylphenol	77.5	10.0	"	100		77.5	32-119	0.00	30	
Dimethyl phthalate	95.2	10.0	"	100		95.2	25-112	3.20	30	
4,6-Dinitro-2-methylphenol	104	10.0	"	100		104	25-181	3.92	30	
2,4-Dinitrophenol	94.4	20.0	"	100		94.4	25-191	3.34	30	
2,4-Dinitrotoluene	107	10.0	"	100		107	39-139	1.89	30	

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Acid and Base/Neutral Extractables by EPA Method 625 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D11004: Prepared 04/11/05 Using EPA 3520C

LCS Dup (5D11004-BSD1)

2,6-Dinitrotoluene	96.8	10.0	ug/l	100		96.8	50-158	2.83	30	
1,2-Diphenylhydrazine (as Azobenzene)	84.7	20.0	"	100		84.7	25-150	7.09	30	
Fluoranthene	94.2	10.0	"	100		94.2	26-137	1.17	30	
Fluorene	95.5	10.0	"	100		95.5	59-121	1.05	30	
Hexachlorobenzene	103	10.0	"	100		103	25-152	6.00	30	
Hexachlorobutadiene	79.2	10.0	"	100		79.2	25-116	2.00	30	
Hexachloroethane	67.9	10.0	"	100		67.9	40-113	3.62	30	
Indeno (1,2,3-cd) pyrene	94.0	10.0	"	100		94.0	25-171	4.57	30	
Isophorone	72.5	10.0	"	100		72.5	25-196	1.11	30	
2-Methylnaphthalene	76.5	10.0	"	100		76.5	50-150	0.261	30	
3 & 4-Methylphenol	95.2	10.0	"	100		95.2	25-150	0.628	30	
Naphthalene	72.8	10.0	"	100		72.8	25-133	1.09	30	
Nitrobenzene	60.0	10.0	"	100		60.0	35-180	2.96	30	
2-Nitrophenol	70.5	10.0	"	100		70.5	29-182	0.847	30	
4-Nitrophenol	93.7	10.0	"	100		93.7	25-132	0.965	30	
N-Nitrosodi-n-propylamine	78.5	10.0	"	100		78.5	25-230	0.761	30	
Di-n-octyl phthalate	110	10.0	"	100		110	25-146	5.61	30	
Pentachlorophenol	108	10.0	"	100		108	25-176	5.71	30	
Phenanthrene	95.0	10.0	"	100		95.0	54-120	4.74	30	
Phenol	65.2	10.0	"	100		65.2	25-112	1.52	30	
Pyrene	102	10.0	"	100		102	52-115	4.82	30	
1,2,4-Trichlorobenzene	71.0	10.0	"	100		71.0	44-142	1.26	30	
Surrogate: 2-FBP	48.4		"	50.0		96.8	49-122			
Surrogate: 2-FP	27.9		"	50.0		55.8	20-111			
Surrogate: Nitrobenzene-d5	33.5		"	50.0		67.0	50-120			
Surrogate: Phenol-d6	26.7		"	50.0		53.4	12-120			
Surrogate: p-Terphenyl-d14	53.9		"	50.0		108	10-138			
Surrogate: 2,4,6-TBP	53.0		"	50.0		106	22-131			

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D11029: Prepared 04/11/05 Using Gravimetric (hexane)

Blank (5D11029-BLK1)

Oil & Grease (HEM)	ND	5.00	mg/l
Total Petroleum Hydrocarbons (SGT-HEM)	ND	5.00	"

LCS (5D11029-BS1)

Oil & Grease (HEM)	35.9	5.00	mg/l	40.0	89.8	78-107
Total Petroleum Hydrocarbons (SGT-HEM)	18.0	5.00	"	20.0	90.0	65-132

LCS Dup (5D11029-BSD1)

Oil & Grease (HEM)	37.4	5.00	mg/l	40.0	93.5	78-107	4.09	10
Total Petroleum Hydrocarbons (SGT-HEM)	18.7	5.00	"	20.0	93.5	65-132	3.81	20

Matrix Spike (5D11029-MS1)

Source: B5D0142-01

Q-02

Oil & Grease (HEM)	56.0	5.81	mg/l	46.5	32.1	51.4	78-107
Total Petroleum Hydrocarbons (SGT-HEM)	12.0	5.81	"	23.3	ND	51.5	65-132

Batch 5D12062: Prepared 04/12/05 Using General Preparation

Blank (5D12062-BLK1)

Total Suspended Solids	ND	4.0	mg/l
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Duplicate (5D12062-DUP1)

Source: B5D0285-01

Total Suspended Solids	1.5	4.0	mg/l	2.0	28.6	19
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Batch 5D13060: Prepared 04/12/05 Using General Preparation

Blank (5D13060-BLK1)

Cyanide (total)	ND	0.0100	mg/l
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PES Environmental
9 Lake Bellevue Dr Ste 108
Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5D13060: Prepared 04/12/05 Using General Preparation

LCS (5D13060-BS1)

Cyanide (total)	0.0920	0.0100	mg/l	0.100		92.0	85-115			
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LCS Dup (5D13060-BSD1)

Cyanide (total)	0.0940	0.0100	mg/l	0.100		94.0	85-115	2.15	20	
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Duplicate (5D13060-DUP1)

Source: B5D0038-01

Cyanide (total)	ND	0.0100	mg/l		ND			NA	27	
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Matrix Spike (5D13060-MS1)

Source: B5D0038-01

Cyanide (total)	0.0870	0.0100	mg/l	0.100	ND	87.0	36-133			
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PES Environmental
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Bellevue, WA/USA 98005

Project: Shell Harbor Island
Project Number: 828.001.01.001
Project Manager: Bill Haldeman

Reported:
04/22/05 17:27

Notes and Definitions

- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-02 The spike recovery for this QC sample is outside of NCA established control limits due to sample matrix interference.
- Q-07 The RPD value for this QC sample is above the established control limit. Review of associated QC indicates the high RPD does not represent an out-of-control condition for the batch.
- S-03 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Sandra Yakamavich, Project Manager

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